



RELIABILITY OF MOBILE NETWORKS FOR HEALTHCARE APPLICATIONS

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HEALTHCARE INDUSTRY RELIABILITY CONCERNS – MOBILE INDUSTRY VIEW



Coverage

- › 4G/LTE deployment on 700 MHz
- › Coverage and in-building penetration advantages over existing 3G technologies deployed at higher frequency bands

Capacity

- › 3G/HSPA Evolution:
 - › theoretical peak 7.2 Mbps to 21 Mbps and beyond
- › 4G/LTE:
 - › theoretical peak: 42 Mbps, 84 Mbps to 168 Mbps

Right priority on high load

- › Managed services with QoS
- › Application-aware QoS mechanism in 4G/LTE

Security

- › UICC Subscriber Identity Module (SIM)
- › Application-level security, Smartpipe enabled by IP Multimedia Subsystem (IMS)

Compatibility

- › 3GPP / 3GPP2 standardization
- › IP based back-end, ready for integration with Healthcare IT system



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